

Sh. w/oligos

L7 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:315537 CAPLUS

DOCUMENT NUMBER: 122:106399

TITLE: Preparation of novel 2'-O-alkylnucleosides and phosphoramidites processes for the preparation and uses thereof for the synthesis of **oligonucleotides**

INVENTOR(S): McGee, Daniel Peter Claude; Cook, Phillip Dan; Guinasso, Charles John

PATENT ASSIGNEE(S): ISIS Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 136

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9402501	A1	19940203	WO 1993-US6807	19930720
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5506351	A	19960409	US 1992-918362	19920723
IL 106266	A1	19980310	IL 1993-106266	19930707
AU 9346849	A1	19940214	AU 1993-46849	19930720
EP 651759	A1	19950510	EP 1993-917287	19930720
EP 651759	B1	20031210		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10087689	A2	19980407	JP 1997-194153	19930720
JP 3015464	B2	20000306	JP 1994-504646	19930720
JP 07508042	T2	19950907		
JP 2000095793	A2	20000404	JP 1999-293153	19930720
EP 1223173	A2	20020717	EP 2002-76058	19930720
EP 1223173	A3	20030416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CA 2140428	C	20030708	CA 1993-2140428	19930720
AT 256143	E	20031215	AT 1993-917287	19930720
AU 713740	B2	19991209	AU 1997-26244	19970624
AU 9726244	A1	19971106		
US 6232463	B1	20010515	US 1998-128508	19980804
PRIORITY APPLN. INFO.:			US 1992-918362	A2 19920723
			US 1992-967267	A2 19921027
			US 1992-968849	A2 19921030
			AU 1993-38025	A3 19930225
			EP 1993-917287	A3 19930720
			JP 1994-504646	A3 19930720
			WO 1993-US6807	W 19930720
			US 1997-948151	A1 19971009

OTHER SOURCE(S): CASREACT 122:106399; MARPAT 122:106399

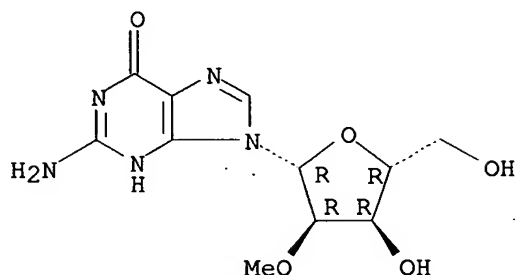
IT 2140-71-8P, 2'-O-Methylguanosine 160526-78-3P  
160526-91-0P, 2'-O-Propylguanosine 160526-93-2P,  
2'-O-Pentylguanosine 160526-95-4P, 2'-O-Nonylguanosine  
160526-97-6P, 2'-O-(3-Phthalimidopropyl)guanosine  
160526-99-8P, 2'-O-Octadecylguanosine 160527-01-5P,  
2'-O-[4-(1-Imidazolyl)butyl]guanosine

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as intermediate for O-alkylnucleoside phosphoramidite derivative)

RN 2140-71-8 CAPLUS

CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

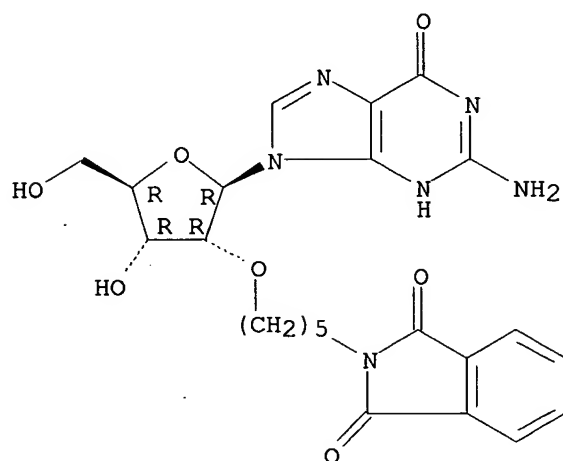
Absolute stereochemistry.



RN 160526-78-3 CAPLUS

CN Guanosine, 2'-O-[5-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)pentyl]- (9CI)  
(CA INDEX NAME)

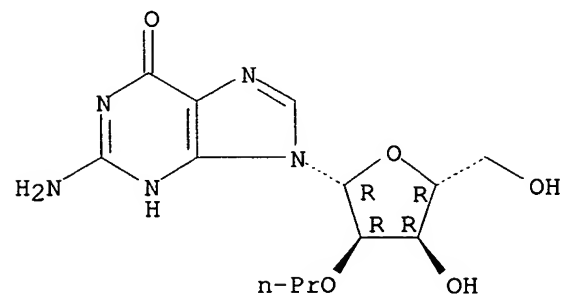
Absolute stereochemistry.



RN 160526-91-0 CAPLUS

CN Guanosine, 2'-O-propyl- (9CI) (CA INDEX NAME)

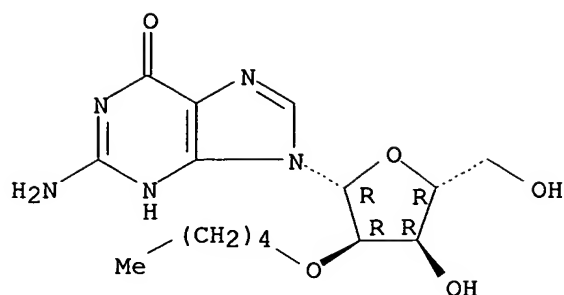
Absolute stereochemistry.



RN 160526-93-2 CAPLUS

CN Guanosine, 2'-O-pentyl- (9CI) (CA INDEX NAME)

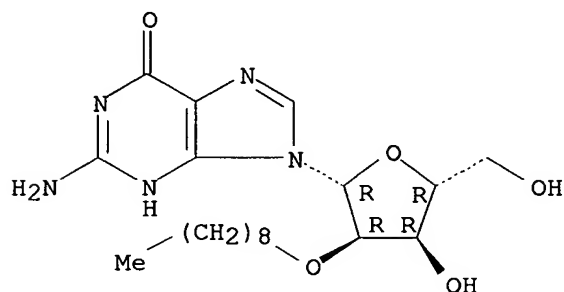
Absolute stereochemistry.



RN 160526-95-4 CAPLUS

CN Guanosine, 2'-O-nonyl- (9CI) (CA INDEX NAME)

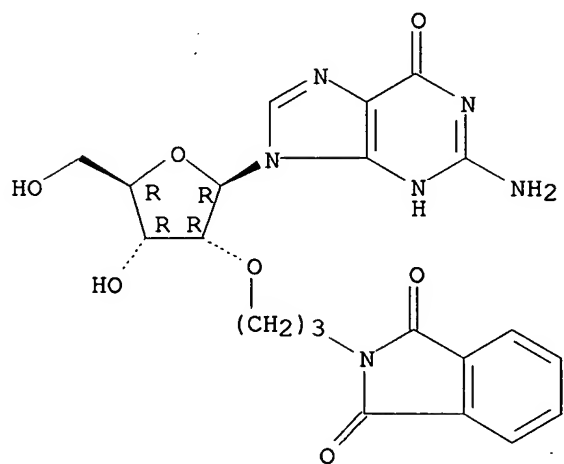
Absolute stereochemistry.



RN 160526-97-6 CAPLUS

CN Guanosine, 2'-O-[3-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)propyl]- (9CI)  
(CA INDEX NAME)

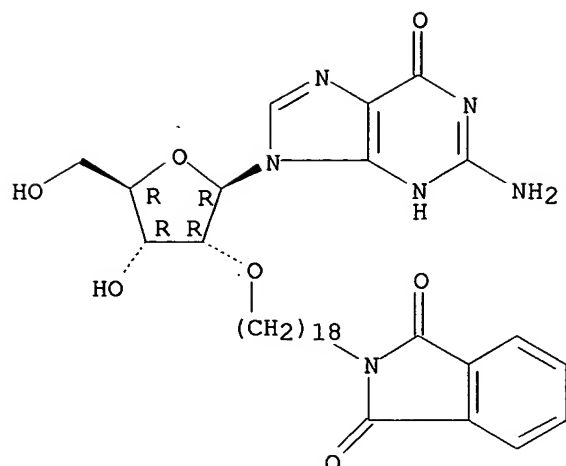
Absolute stereochemistry.



RN 160526-99-8 CAPLUS

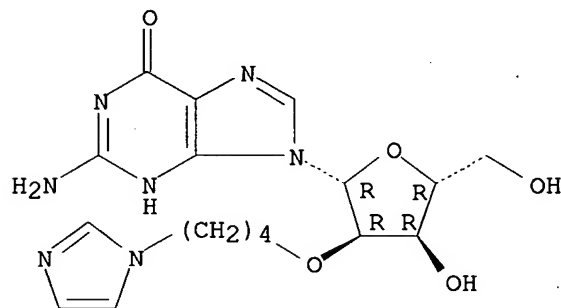
CN Guanosine, 2'-O-[18-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)octadecyl]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



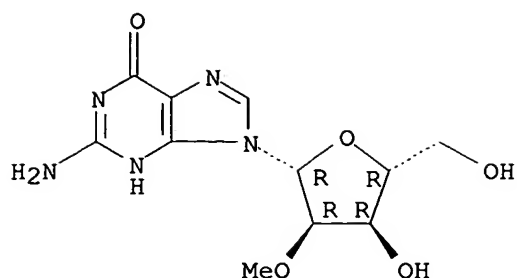
RN 160527-01-5 CAPLUS  
 CN Guanosine, 2'-O-[4-(1H-imidazol-1-yl)butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



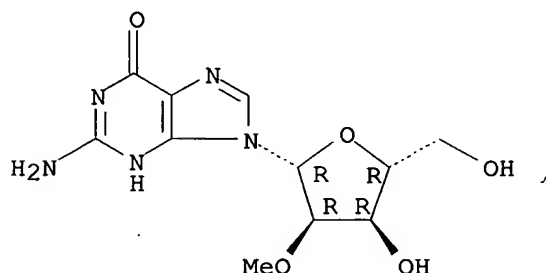
L7 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1990:474009 CAPLUS  
 DOCUMENT NUMBER: 113:74009  
 TITLE: High resolution chromatography of ribonucleosides and  
 its application to RNA analysis  
 AUTHOR(S): Tanaka, Kouji; Yazawa, Kouhei; Nakajima, Terumi  
 CORPORATE SOURCE: Fac. Pharm. Sci., Univ. Tokyo, Tokyo, 113, Japan  
 SOURCE: Biomedical Chromatography (1989), 3(6), 246-50  
 CODEN: BICHE2; ISSN: 0269-3879  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 2140-71-8, 2'-O-Methylguanosine  
 RL: ANT (Analyte); ANST (Analytical study)  
 (detection of, by HPLC)  
 RN 2140-71-8 CAPLUS  
 CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1984:421752 CAPLUS  
 DOCUMENT NUMBER: 101:21752  
 TITLE: Antibodies specific for 1-methylguanosine as a probe  
 of tRNA conformation  
 AUTHOR(S): Jayabaskaran, Chelliah  
 CORPORATE SOURCE: Dep. Bacteriol., Univ. Wisconsin, Madison, WI, 53706,  
 USA  
 SOURCE: Biochemistry International (1984), 8(4), 561-71  
 CODEN: BIINDF; ISSN: 0158-5231  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 2140-71-8  
 RL: BIOL (Biological study)  
 (antibodies to methylguanosine binding to methylguanosine trialc.  
 inhibition by, tRNA conformation in relation to)  
 RN 2140-71-8 CAPLUS  
 CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

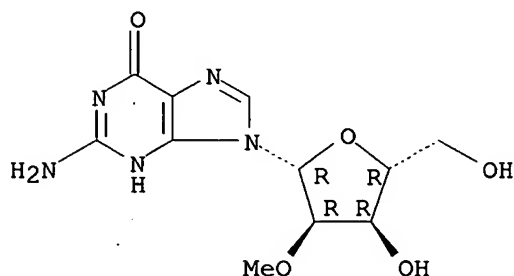
Absolute stereochemistry.



L7 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1984:152608 CAPLUS  
 DOCUMENT NUMBER: 100:152608  
 TITLE: Chemically induced dynamic nuclear polarization  
 studies of guanosine in nucleotides, dinucleotides,  
 and **oligonucleotides**  
 AUTHOR(S): McCord, Elizabeth F.; Morden, Kathleen M.; Pardi,  
 Arthur; Tinoco, Ignacio, Jr.; Boxer, Steven G.  
 CORPORATE SOURCE: Dep. Chem., Stanford Univ., Stanford, CA, 94305, USA  
 SOURCE: Biochemistry (1984), 23(9), 1926-34  
 CODEN: BICHAW; ISSN: 0006-2960  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 2140-71-8  
 RL: BIOL (Biological study)

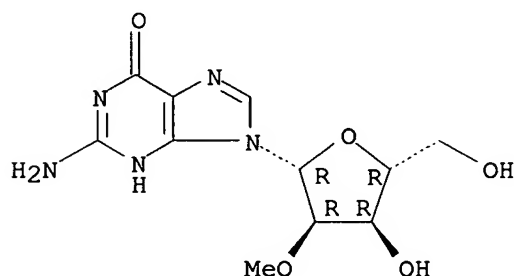
(CIDNP of, in presence of photoexcited riboflavin)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1983:198638 CAPLUS  
DOCUMENT NUMBER: 98:198638  
TITLE: New route for the synthesis of 2'-O-methyl  
nucleosides, rare constituents of transfer RNA  
AUTHOR(S): Chavis, C.; Dumont, F.; Ziegler, J. C.; Wightman, R.  
H.; Imbach, J. L.  
CORPORATE SOURCE: Lab. Chim. Bio-Org., Univ. Sci. Tech. Languedoc,  
Montpellier, 34060, Fr.  
SOURCE: Proc. Int. Round Table Nucleosides, Nucleotides Their  
Biol. Appl., 4th (1982), Meeting Date 1981, 195-200.  
Editor(s): Alderweireldt, Frank C.; Esmans, Eddy L.  
Univ. Antwerp: Antwerp, Belg.  
CODEN: 49EBA4  
DOCUMENT TYPE: Conference  
LANGUAGE: French  
IT 2140-71-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

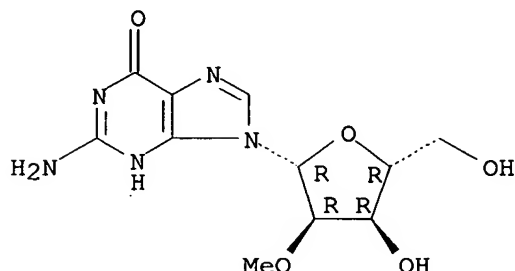
Absolute stereochemistry.



L7 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1983:85531 CAPLUS  
DOCUMENT NUMBER: 98:85531  
TITLE: Enzymic synthesis of an RNA fragment corresponding to  
the anticodon loop and stem of tRNA<sup>PHE</sup> from yeast  
AUTHOR(S): McLaughlin, Larry W.; Graeser, Erika

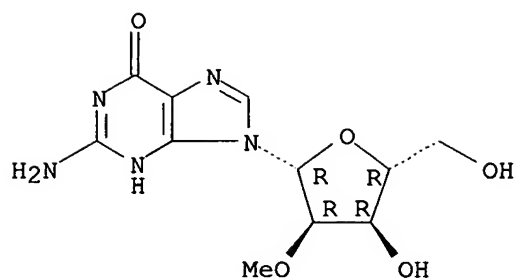
CORPORATE SOURCE: Abt. Chem., Max-Planck-Inst. Exp. Med., Goettingen,  
D-3400, Fed. Rep. Ger.  
SOURCE: Journal of Liquid Chromatography (1982), 5(11),  
2061-77  
CODEN: JLCHD8; ISSN: 0148-3919  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 2140-71-8  
RL: ANT (Analyte); ANST (Analytical study)  
(chromatog. of, high-performance liquid)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



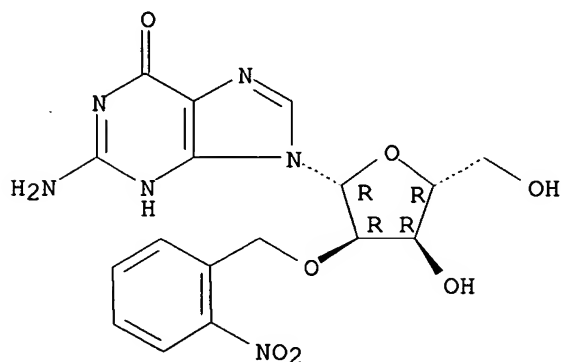
L7 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1981:402776 CAPLUS  
DOCUMENT NUMBER: 95:2776  
TITLE: Rapid analysis of modified tRNAPhe from yeast by  
high-performance liquid chromatography:  
chromatography of **oligonucleotides** after  
RNase T1 digestion on aminopropylsilica and assignment  
of the fragments based on nucleoside analysis by  
chromatography on C18-silica  
AUTHOR(S): McLaughlin, Larry W.; Cramer, Friedrich; Sprinzl,  
Mathias  
CORPORATE SOURCE: Abt. Chem., Max-Planck-Inst. Exp. Med., Goettingen,  
Fed. Rep. Ger.  
SOURCE: Analytical Biochemistry (1981), 112(1), 60-9  
CODEN: ANBCA2; ISSN: 0003-2697  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 2140-71-8  
RL: ANT (Analyte); ANST (Analytical study)  
(determination of, of phenylalanine-specific transfer RNA of yeast by  
high-performance liquid chromatog.)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1977:552502 CAPLUS  
 DOCUMENT NUMBER: 87:152502  
 TITLE: Studies on transfer ribonucleic acids and related compounds; XVIII. A photolabile 2'-ether of guanosine as an intermediate for **oligonucleotide** synthesis  
 AUTHOR(S): Ohtsuka, Eiko; Tanaka, Shoji; Ikehara, Morio  
 CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Suita, Japan  
 SOURCE: Synthesis (1977), (7), 453-4  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 64350-27-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and deblocking of)  
 RN 64350-27-2 CAPLUS  
 CN Guanosine, 2'-O-[(2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

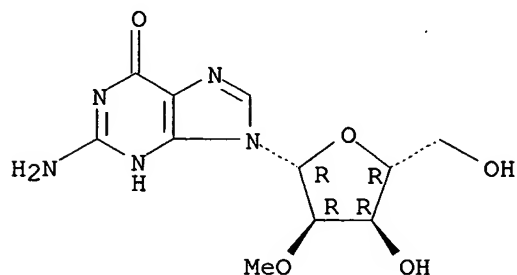


L7 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1977:513340 CAPLUS  
 DOCUMENT NUMBER: 87:113340  
 TITLE: 5'-Terminal and internal methylated nucleosides in herpes simplex virus type 1 mRNA  
 AUTHOR(S): Moss, Bernard; Gershowitz, Alan; Stringer, James R.; Holland, Louis E.; Wagner, Edward K.  
 CORPORATE SOURCE: Lab. Biol. Viruses, Natl. Inst. Allergy Infect. Dis., Bethesda, MD, USA  
 SOURCE: Journal of Virology (1977), 23(2), 234-9  
 CODEN: JOVIAM; ISSN: 0022-538X



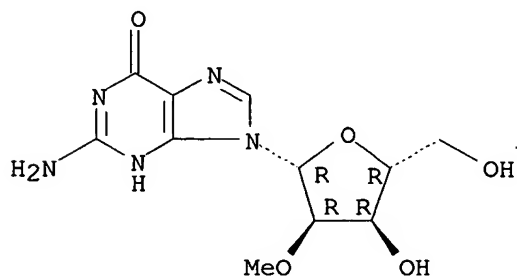
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 2140-71-8  
RL: BIOL (Biological study)  
(of messenger RNA, of herpes simplex virus)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1977:463453 CAPLUS  
DOCUMENT NUMBER: 87:63453  
TITLE: Effects of a trinucleotide ethyl phosphotriester, Gmp(Et)Gmp(Et)U, on mammalian cells in culture  
AUTHOR(S): Miller, Paul S.; Braiterman, Lita T.; Ts'o, Paul O. P.  
CORPORATE SOURCE: Sch. Hyg. Public Health, Johns Hopkins Univ., Baltimore, MD, USA  
SOURCE: Biochemistry (1977), 16(9), 1988-96  
CODEN: BICHAW; ISSN: 0006-2960  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 2140-71-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction with isobutyryl chloride)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

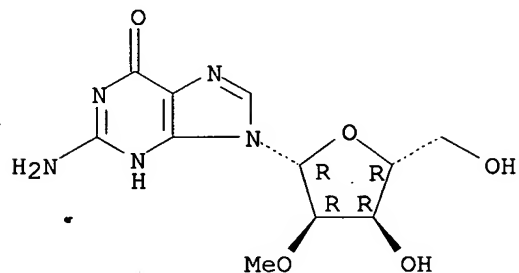
Absolute stereochemistry.



L7 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1976:555242 CAPLUS  
DOCUMENT NUMBER: 85:155242  
TITLE: Methylation pattern of genomic RNA from Moloney murine leukemia virus

AUTHOR(S): Bondurant, Maurice; Hashimoto, Shuichi; Green, Maurice  
CORPORATE SOURCE: Sch. Med., St. Louis Univ., St. Louis, MO, USA  
SOURCE: Journal of Virology (1976), 19(3), 998-1005  
CODEN: JOVIAM; ISSN: 0022-538X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 2140-71-8  
RL: PROC (Process)  
(of murine leukemia virus, distribution of)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

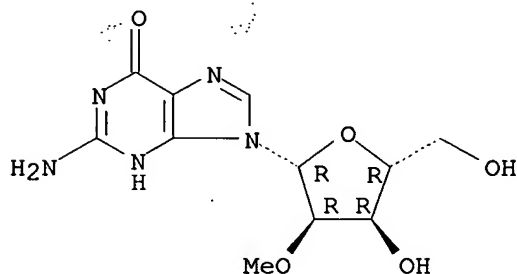


Str. W/ nucleosides

=> d hitstr ibib 150-1601 14

L4 ANSWER 150 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8  
RL: PRP (Properties)  
(mass spectrum of)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

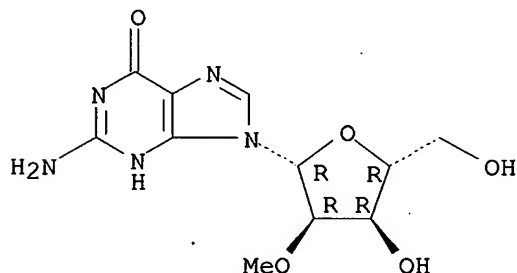
Absolute stereochemistry.



ACCESSION NUMBER: 1971:949 CAPLUS  
DOCUMENT NUMBER: 74:949  
TITLE: Mass spectra of ribonucleoside components of tRNA. II  
AUTHOR(S): Hecht, Sidney M.; Gupta, Amrit S.; Leonard, Nelson J.  
CORPORATE SOURCE: Dep. of Chem. and Chem. Eng., Univ. of Illinois,  
Urbana, IL, USA  
SOURCE: Analytical Biochemistry (1970), 38(1), 230-51  
CODEN: ANBCA2; ISSN: 0003-2697  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 151 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
BIOL (Biological study); OCCU (Occurrence)  
(of glioma)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1970:423402 CAPLUS  
DOCUMENT NUMBER: 73:23402  
TITLE: Overmethylated t-RNAs in human gliomas  
AUTHOR(S): Viale, Giuseppe L.  
CORPORATE SOURCE: Neurosurg. Clin., Univ. Genova, Genoa, Italy

SOURCE: Rivista di Neurobiologia (1969), 15(3), 505-16  
CODEN: RNBLAC; ISSN: 0035-6336  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 152 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN

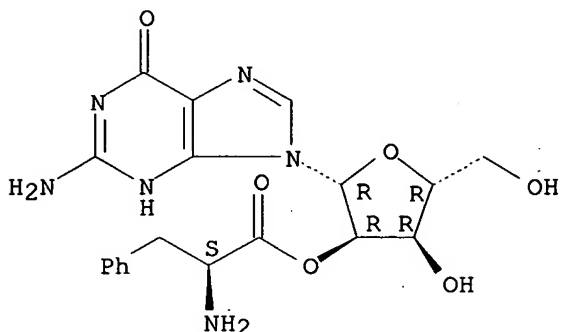
IT 25164-34-5P 27552-77-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 25164-34-5 CAPLUS

CN Guanosine, 2'-ester with phenyl-L-alanine (8CI) (CA INDEX NAME)

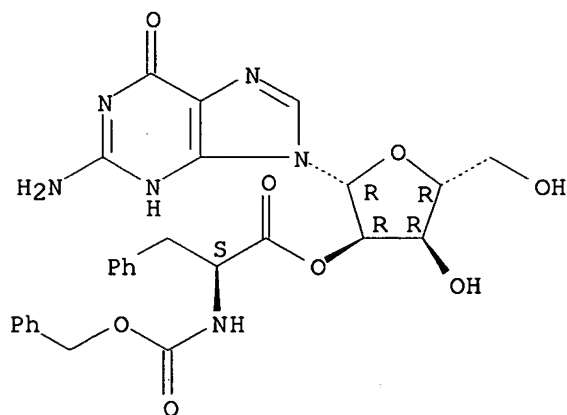
Absolute stereochemistry.



RN 27552-77-8 CAPLUS

CN Guanosine, 2'-ester with N-carboxy-3-phenyl-L-alanine N-benzyl ester (8CI)  
(CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1970:44055 CAPLUS

DOCUMENT NUMBER: 72:44055

TITLE: Aminoacyl derivatives of nucleosides, nucleotides, and polynucleotides. VIII. Preparation of 2'(3')-O-L-phenylalanylyridine, -cytidine, -adenosine, -inosine, -guanosine, and 3'-O-L-phenylalanyl-2'-deoxyadenosine

AUTHOR(S): Zemlicka, Jiri; Chladek, Stanislav; Haladova, Z.; Rychlik, Ivan

CORPORATE SOURCE: Cesk. Akad. Ved, Prague, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications

(1969), 34(12), 3755-68  
CODEN: CCCCCK; ISSN: 0010-0765

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 72:44055

L4 ANSWER 153 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN

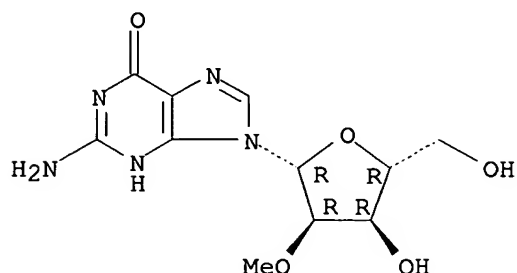
IT 2140-71-8P

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation) (formation of, in transfer ribonucleic acids by Escherichia coli)

RN 2140-71-8 CAPLUS

CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1969:498232 CAPLUS

DOCUMENT NUMBER: 71:98232

TITLE: In vitro synthesis of 2'-O-methylguanosine and 2-methylthio-N6-( $\gamma,\gamma$ -dimethylallyl) adenosine in transfer RNA of Escherichia coli

AUTHOR(S): Gefter, Malcolm Lawrence

CORPORATE SOURCE: Lab. Mol. Biol., Med. Res. Counc., Cambridge, UK

SOURCE: Biochemical and Biophysical Research Communications (1969), 36(3), 435-41

CODEN: BBRC9; ISSN: 0006-291X

DOCUMENT TYPE: Journal

LANGUAGE: English

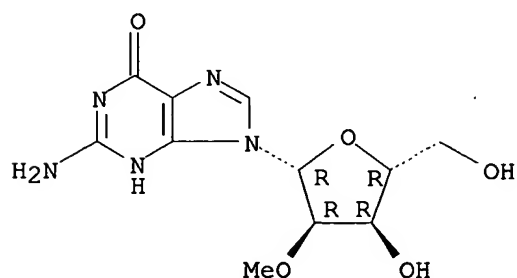
L4 ANSWER 154 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN

IT 2140-71-8, Guanosine, 2'-O-methyl- (preparation of)

RN 2140-71-8 CAPLUS

CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

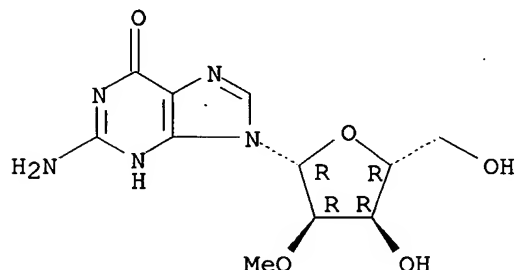


ACCESSION NUMBER: 1966:457035 CAPLUS

DOCUMENT NUMBER: 65:57035  
ORIGINAL REFERENCE NO.: 65:10648b-c  
TITLE: Purine nucleosides. XVI. Synthesis of the naturally occurring 2'-O-methylpurine ribonucleosides and related derivatives  
AUTHOR(S): Khwaja, Tasneem A.; Robins, Roland K.  
CORPORATE SOURCE: Univ. of Utah, Salt Lake City  
SOURCE: Journal of the American Chemical Society (1966), 88(15), 3640-3  
CODEN: JACSAT; ISSN: 0002-7863  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 155 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8, Guanosine, 2'-O-methyl-  
(in RNA of Chlorella)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

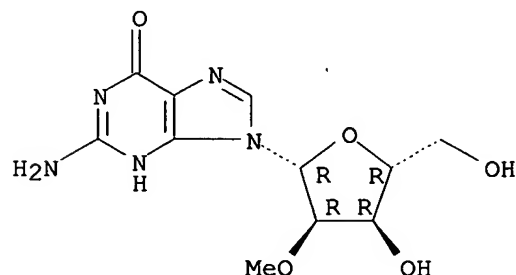
Absolute stereochemistry.



ACCESSION NUMBER: 1965:433051 CAPLUS  
DOCUMENT NUMBER: 63:33051  
ORIGINAL REFERENCE NO.: 63:5936e-g  
TITLE: Alkali-stable RNA fragments from Chlorella  
AUTHOR(S): Correll, David L.  
CORPORATE SOURCE: Smithsonian Inst., Washington, DC  
SOURCE: Phytochemistry (Elsevier) (1965), 4(3), 453-9  
CODEN: PYTCAS; ISSN: 0031-9422  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 156 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8, Guanosine, 2'-O-methyl-  
(separation from ribonucleic acid hydrolyzates)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

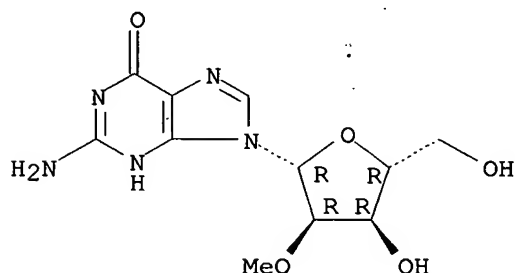
Absolute stereochemistry.



ACCESSION NUMBER: 1965:75557 CAPLUS  
DOCUMENT NUMBER: 62:75557  
ORIGINAL REFERENCE NO.: 62:13419b-d  
TITLE: A general procedure for the isolation of minor nucleosides from ribonucleic acid hydrolyzates  
AUTHOR(S): Hall, Ross H.  
CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, NY  
SOURCE: Biochemistry (Moscow, Russian Federation) (1965), 4(4), 661-70  
CODEN: BIORAK; ISSN: 0006-2979  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 157 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8, Guanosine, 2'-O-methyl-  
(in ribonucleic acids)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

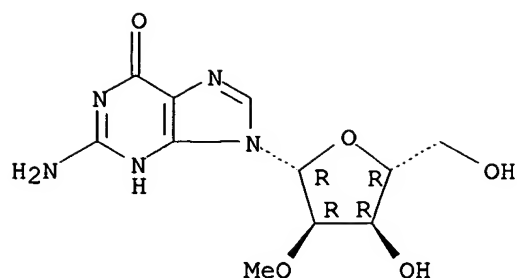
Absolute stereochemistry.



ACCESSION NUMBER: 1964:419325 CAPLUS  
DOCUMENT NUMBER: 61:19325  
ORIGINAL REFERENCE NO.: 61:3335e-f  
TITLE: The 2'-O-methylribonucleoside content of ribonucleic acids (RNA)  
AUTHOR(S): Hall, Ross H.  
CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, NY  
SOURCE: Biochemistry (Moscow, Russian Federation) (1964), 3(7), 876-80  
CODEN: BIORAK; ISSN: 0006-2979  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 158 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
IT 2140-71-8, Guanosine, 2'-O-methyl-  
(from ribonucleic acid of animal tissue and Escherichia coli)  
RN 2140-71-8 CAPLUS  
CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

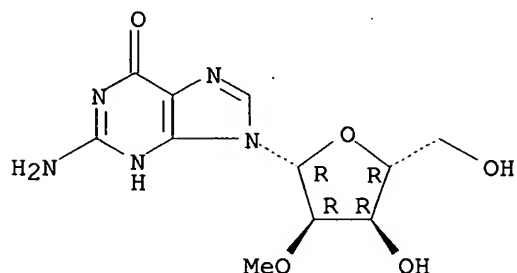
Absolute stereochemistry.



ACCESSION NUMBER: 1963:463538 CAPLUS  
 DOCUMENT NUMBER: 59:63538  
 ORIGINAL REFERENCE NO.: 59:11789c-d  
 TITLE: Isolation of 2'-O-methylribonucleosides from the  
 ribonucleic acid (RNA) of mammalian tissues and from  
 Escherichia coli  
 AUTHOR(S): Hall, Ross H.  
 CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, NY  
 SOURCE: Biochemical and Biophysical Research Communications  
 (1963), 12(6), 429-31  
 CODEN: BBRC9; ISSN: 0006-291X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L4 ANSWER 159 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
 IT **2140-71-8**, Guanosine, 2'-O-methyl-  
 (separation from ribonucleic acid)  
 RN 2140-71-8 CAPLUS  
 CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



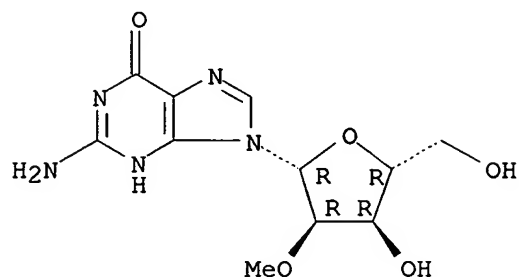
ACCESSION NUMBER: 1963:74558 CAPLUS  
 DOCUMENT NUMBER: 58:74558  
 ORIGINAL REFERENCE NO.: 58:12799d-e  
 TITLE: Method for isolation of 2'-O-methylribonucleosides and  
 N1-methyladenosine from ribonucleic acid (RNA)  
 AUTHOR(S): Hall, Ross H.  
 CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, NY  
 SOURCE: Biochimica et Biophysica Acta (1963), 68, 278-83  
 CODEN: BBACAQ; ISSN: 0006-3002  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 160 OF 160 CAPLUS COPYRIGHT 2004 ACS on STN  
 IT **2140-71-8**, Guanosine, 2'-O-methyl-  
 (preparation of)  
 RN 2140-71-8 CAPLUS



CN Guanosine, 2'-O-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1963:60758 CAPLUS  
DOCUMENT NUMBER: 58:60758  
ORIGINAL REFERENCE NO.: 58:10430h,10431a  
TITLE: 2'-O-Methylribonucleosides participating in  
alkali-resistant sequences of ribonucleic acid (RNA)  
AUTHOR(S): Morisawa, Seiji; Chargaff, Erwin  
CORPORATE SOURCE: Columbia Univ.  
SOURCE: Biochimica et Biophysica Acta (1963), 68, 147-9  
CODEN: BBACAQ; ISSN: 0006-3002  
DOCUMENT TYPE: Journal  
LANGUAGE: English

Preparation, nuclease resistance, and protein binding  
of oligonucleotide analogs having modified  
dimers

INVENTOR(S): Cook, Phillip Dan; Manoharan, Muthiah; Bhat,  
Balkrishen

PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA

SOURCE: U.S., 33 pp., Cont.-in-part of U. S. Ser. No. 248,386.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 136

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6420549	B1	20020716	US 1998-131102	19980807
US 5859221	A	19990112	US 1995-468037	19950606
US 5965722	A	19991012	US 1997-848840	19970430
AU 713740	B2	19991209	AU 1997-26244	19970624
AU 9726244	A1	19971106		
US 6232463	B1	20010515	US 1998-128508	19980804
US 6359124	B1	20020319	US 1999-248386	19990212
WO 2000008214	A1	20000217	WO 1999-US18023	19990806

ACCESSION NUMBER: 1963:60758 CAPLUS

DOCUMENT NUMBER: 58:60758

ORIGINAL REFERENCE NO.: 58:10430h,10431a

TITLE: 2'-O-Methylribonucleosides participating in  
alkali-resistant sequences of ribonucleic acid (RNA)

AUTHOR(S): Morisawa, Seiji; Chargaff, Erwin

CORPORATE SOURCE: Columbia Univ.

SOURCE: Biochimica et Biophysica Acta (1963), 68, 147-9

ACCESSION NUMBER: 1999:606987 CAPLUS

DOCUMENT NUMBER: 131:237986

TITLE: Gapped 2'-alkyl or 2'-deoxy-erythro-pentofuranosyl or  
other 2'-modified oligonucleotides for  
antisense therapy

INVENTOR(S): Cook, Phillip Dan; Monia, Brett P.

PATENT ASSIGNEE(S): Isis Pharmaceuticals Inc., USA

SOURCE: U.S., 34 pp.

CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 136  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5955589	A	19990921	US 1995-465880	19950606
AU 713740	B2	19991209	AU 1997-26244	19970624
AU 9726244	A1	19971106		
US 6232463	B1	20010515	US 1998-128508	19980804
US 6399754	B1	20020604	US 1998-135202	19980817
PRIORITY APPLN. INFO.:			US 1991-814961	B2 19911224
			WO 1992-US11339	B2 19921223
			AU 1993-38025	A3 19930225
			US 1994-244993	A2 19940621
			US 1995-465880	A2 19950606
			US 1995-471973	A3 19950606
			US 1997-948151	A1 19971009

ACCESSION NUMBER: 1999:355187 CAPLUS  
DOCUMENT NUMBER: 131:140962  
TITLE: Structural properties of DNA:RNA duplexes containing  
2'-O-methyl and 2'-S-methyl substitutions: a molecular  
dynamics investigation  
AUTHOR(S): Venkateswarlu, Divi; Lind, Kenneth E.; Mohan, V.;  
Manoharan, Muthiah; Ferguson, David M.  
CORPORATE SOURCE: Department of Medicinal Chemistry and Minnesota  
Supercomputer Institute, University of Minnesota,  
Minneapolis, MN, 55455, USA  
SOURCE: Nucleic Acids Research (1999), 27(10), 2189-2195

ACCESSION NUMBER: 1995:315537 CAPLUS  
DOCUMENT NUMBER: 122:106399  
TITLE: Preparation of novel 2'-O-alkylnucleosides and  
phosphoramidites processes for the preparation and  
uses thereof for the synthesis of  
oligonucleotides  
INVENTOR(S): McGee, Daniel Peter Claude; Cook, Phillip Dan;  
Guinosso, Charles John

PATENT ASSIGNEE(S): ISIS Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 136

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9402501	A1	19940203	WO 1993-US6807	19930720
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5506351	A	19960409	US 1992-918362	19920723
IL 106266	A1	19980310	IL 1993-106266	19930707
AU 9346849	A1	19940214	AU 1993-46849	19930720
EP 651759	A1	19950510	EP 1993-917287	19930720
EP 651759	B1	20031210		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10087689	A2	19980407	JP 1997-194153	19930720
JP 3015464	B2	20000306	JP 1994-504646	19930720
JP 07508042	T2	19950907		
JP 2000095793	A2	20000404	JP 1999-293153	19930720
EP 1223173	A2	20020717	EP 2002-76058	19930720
EP 1223173	A3	20030416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CA 2140428	C	20030708	CA 1993-2140428	19930720
AT 256143	E	20031215	AT 1993-917287	19930720
AU 713740	B2	19991209	AU 1997-26244	19970624
AU 9726244	A1	19971106		
US 6232463	B1	20010515	US 1998-128508	19980804